CLAIMS

What is claimed is:

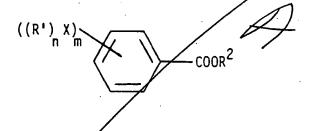
1. A method for releasing a ligand from a complex thereof, said method comprising contacting a medium suspected of containing said complex with an effective amount of a compound of the formula:

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wherein R¹ is alkyl; R² is hydrogen or alkyl; X is O, S or N; n is 1 when X is O or S and n is 2 when X is N; and m is 1 or 2.

- 2. The method of Claim 1 wherein X is O.
- 3. The method of Claim 1 wherein said compound is methoxybenzoic acid.
- 4. In a method for the determination of an analyte that is a member of a specific binding pair in a sample suspected of containing said analyte, said method comprising the steps of (a) providing in an assay medium said sample and a binding partner for said analyte and (b) detecting the binding of said binding partner to said analyte, the improvement comprising including in said assay medium a compound of the formula:



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wherein R¹ is alkyl; R² is hydrogen or alkyl; X is O, S or N; n is 1 when X is O or S and n is 2 when X is N; m is 1 or 2 and wherein the amount of said compound is sufficient to enhance the accuracy of said determination.

5. The prethod of Claim 4 wherein X is O.

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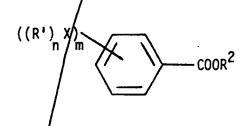
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- 6. The method of Claim 4 wherein said compound is methoxybenzoic acid.
- 7. A method for releasing mycophenolic acid from a complex thereof, said method comprising contacting a medium suspected of containing said complex with an effective amount of a compound of the formula:

((R'), X), coor²

wherein R¹ is alkyl; R² is hydrogen or alkyl; X is O, S or N; n is 1 when X is O or S and n is 2 when X is N; and m is 1 or 2.

- 8. The method of Claim 7 wherein X is O.
- 9. The method of Claim 7 wherein said compound is methoxybenzoic acid.
- 10. The method of Claim 7 wherein said compound is o-methoxybenzoic acid.
- 11. In a method for the determination of mycophenolic acid in a sample suspected of containing mycophenolic acid, said method comprising (a) providing in an assay medium said sample and a binding partner for mycophenolic acid and (b) detecting the binding of said binding partner to mycophenolic acid, the improvement comprising including in said assay/medium a compound of the formula:



wherein R¹ is alkyl; R² is hydrogen or alkyl; X is O, S or N; n is 1 when X is O or S and n is 2 when X is N; and m is 1 or 2; and wherein the amount of said compound is sufficient to enhance the accuracy of said determination.

12. The method of Claim 11 wherein X is O.

- 13. The method of Claim 11 wherein said compound is methoxybenzoic acid.
- 14. The method of Claim 11 wherein said compound is o-methoxybenzoic acid.
 - 15. The method of Claim 11 wherein said binding partner is an antibody.
- 16. The method of Claim 11 wherein step (a) further comprises contacting said sample with a labeled analog of mycophenolic acid.
 - 17. The method of Claim 11 wherein said binding partner is bound to a support or capable of being bound to a support.
- 18. In a method for measuring the amount of mycophenolic acid in a sample suspected of containing mycophenolic acid and endogenous proteins that bind to said mycophenolic acid, said method comp/ising (a) combining in an aqueous medium:
 - (i) said sample
 - (ii) mycophenolic acid/conjugated to a detectable label, and
 - (iii) an antibody capable of binding to mycophenolic acid, and
- (b) determining the effect of said sample on the activity of said label, the improvement comprising including in said medium a compound of the formula:

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wherein R¹ is alkyl and R² is hydrogen or alkyl in an amount effective in releasing said mycophenolic acid from said endogenous proteins.

- 19. The method of Claim 18 wherein said compound is methoxybenzoic acid.
- 20. The method of Claim 18 wherein said detectable label is an enzyme and said determining comprises measuring the activity of said enzyme.
- 21. The method of Claim 18 which further comprises combining in said combining step substrates for said enzyme.
- 30 22. The method of Claim 18 wherein said enzyme is selected from the group consisting of glucose-6-phosphate dehydrogenase and alkaline phosphatase.

- 23. The method of Claim 18 wherein said compound is o-methoxybenzoic acid.
 - 24. The method of Claim 18 wherein said antibody is a monoclonal antibody.
- 25. The method of Claim 18 wherein said antibody is bound to a support or capable of being bound to a support.
- 26. The method of Claim 18 wherein said antibody is capable of distinguishing between mycophenolic acid and an ester thereof.
- 27. The method of Claim 18 wherein said antibody is capable of distinguishing between mycophenolic acid and a metabolite of mycophenolic acid.
- 28. The method of Claim 18 which is a homogeneous immunoassay and further comprises the step of (c) comparing said activity to the enzymatic activity observed with a sample containing a/known amount of said mycophenolic acid.
- 29. A kit for conducting an assay for the determination of an analyte, said kit comprising in packaged combination:
 - (a) a binding partner for/said analyte and

(b) a compound of the/formula:

((R'), X), coor²

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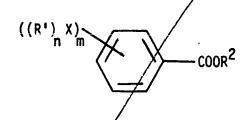
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wherein R¹ is alkyl/R² is hydrogen or alkyl; X is O, S or N; n is 1 when X is O or S and n is 2 when X is N; and m is 1 or 2.

- 25 30. The kit of Claim 29 which further comprises a compound comprising said analyte bound/to a detectable label.
 - 31. /The kit of Claim 29 wherein said compound is methoxybenzoic acid.
 - 32. / The kit of Claim 29 wherein said binding partner is an antibody.
 - 33. A kit for conducting an assay for the determination of mycophenolic acid, said kit comprising in packaged combination:
 - (a) an antibody capable of binding to mycophenolic acid,

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- (b) a compound comprising mycophenolic acid bound to a detectable label, and
- (c) a compound of the formula:



wherein R¹ is alkyl; R² is hydrogen or alkyl; X is O, S or N; n is 1 when X is O or S and n is 2 when X is N; and m is 1 or 2

- 34. The kit of Claim 33 wherein said compound is methoxybenzoic acid.
- 35. The kit of Claim 33 wherein said compound is o-methoxybenzoic acid.
- 36. The kit of Claim 33 wherein said antibody is a monoclonal antibody.
- 37. The method of Claim 33 wherein said antibody is bound to a support or capable of being bound to a support.
 - 38. The method of Claim 33 wherein said antibody is capable of distinguishing between mycophenolic acid and an ester thereof.
 - 39. The method of Claim 33 wherein said antibody is capable of distinguishing between mycophenolic acid and a metabolite of mycophenolic acid.